



DOCKET NO.: M0765.70047US01

[Signature]

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Eng H. Lo et al.
Serial No.: 10/540,344
Confirmation No.: 6440
Filed: May 15, 2006
For: METHODS AND COMPOSITIONS FOR PROTECTION
AGAINST THROMBOLYSIS-ASSOCIATED
REPERFUSION INJURY
Examiner: Not Yet Assigned
Art Unit: 1646

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to MAIL STOP Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 31st day of August, 2006.

Melissa L.B. Lyons
Melissa L.B. Lyons

MAIL STOP Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith are the following documents:

- Information Disclosure Statement
- PTO Form 1449 with cited references
- Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 646-8000, Boston, Massachusetts.

A check is not enclosed. If a fee is required, the Commissioner is hereby authorized to charge Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully submitted,

By:

MaryDilys S. Anderson
MaryDilys S. Anderson, Ph.D.
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Docket No.: M0765.70047US01

Date: August 31, 2006

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[Signature]



SEP 05 2006

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Alexandria, VA 22313-1450

STATEMENT FILED PURSUANT TO THE DUTY OF
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed before the mailing of a first Office action on the merits in the above-identified case.

No fee or certification is required.

PART II: Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified PTO/SB/08). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicant hereby makes the following additional information of record in the above-identified application.

1. The above-identified U.S. application claims priority to application Serial No. PCT/US2003/040953. If the Examiner has not had the benefit of review of the file history of PCT/US2003/040953, then he/she is asked to contact the undersigned, who will provide a copy of same.

The Applicant would like to bring to the Examiner's attention the enclosed search report from a corresponding International or Foreign National Application: PCT/US2003/040953.

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 (modified PTO/SB/08) be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his or her own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted,

By: Mary Dilys S. Anderson
MaryDilys S. Anderson, Ph.D.
Reg. No. 52,560
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600 Atlantic Avenue
Boston, Massachusetts 02210-2206
Telephone: (617) 646-8000

Docket No.: M0765.70047US01

Date: August 31, 2006

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SEP 05 2006

<p style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p>				APPLICATION NO.: 10/540,344	ATTY. DOCKET NO.: M0765.70047US01		
				FILING DATE: May 15, 2006	CONFIRMATION NO.: 6440		
				APPLICANT: Eng H. Lo et al.			
				GROUP ART UNIT: 1646	EXAMINER: Not Yet Assigned		
Sheet	1	of	3				

U.S. PATENT DOCUMENTS

Examiner's Initials #	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
A1	4,766,075			David V. Goeddel et al.	08-23-1988
A2	2005-0019329	A1		Lawrence et al.	05-20-2003

FOREIGN PATENT DOCUMENTS

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
B1	WO	93/24635					
B2	EP	339,505	A				

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials #	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
	C1	AHERN, T.J. et al., Site-directed mutagenesis in human tissue-plasminogen activator. Distinguishing sites in the amino-terminal region required for full fibrinolytic activity and rapid clearance from the circulation. <i>J Biol Chem.</i> 265(10): 5540-5545, 1990.	
	C2	ALBERS et al. Antithrombotic and thrombolytic therapy for ischemic stroke: the Seventh ACCP Conference on Antithrombotic and Thrombolytic Therapy. <i>Chest</i> 126: 483S-512S, 2004.	
	C3	AOKI, T., et al., Blood-brain barrier disruption and matrix metalloproteinase-9 expression during reperfusion injury: mechanical versus embolic focal ischemia in spontaneously hypertensive rats. <i>Stroke</i> 33:2711-2717, 2002.	
	C4	ASAHI, M., et al., Role for matrix metalloproteinase 9 after focal cerebral ischemia: effects of gene knockout and enzyme inhibition with BB-94. <i>J Cereb Blood Flow Metab</i> 20:1681-1690, 2000.	
	C5	ASAHI, M., et al., Effects of matrix metalloproteinase-9 gene knock-out on the proteolysis of blood-brain barrier and white matter components after cerebral ischemia. <i>J Neurosci</i> 21:7724-7732, 2001.	
	C6	BESCHORNER, R., et al., Lesion-associated accumulation of uPAR/CD87- expressing infiltrating granulocytes, activated microglial cells/macrophages and upregulation by endothelial cells following TBI and FCI in humans. <i>Neuropath. Appl. Neurobiol.</i> 26:522-527, 2000.	
	C7	HACKE, W. et al., Intravenous thrombolysis with recombinant tissue plasminogen activator for acute hemispheric stroke. The European Cooperative Acute Stroke Study (ECASS) <i>JAMA</i> 274:1017-1025, 1995.	
	C8	HACKE W, et. al., Thrombolysis in acute ischemic stroke: controlled trials and clinical experience. <i>Neurology</i> 53 (Suppl 4):s3-s15, 1999.	

	C9	HAHN-DANTONA, et al., The low density lipoprotein receptor-related protein modulates levels of matrix metalloproteinase 9 (MMP-9) by mediating its cellular catabolism. <i>J. Biol. Chem.</i> 276(18):15498-15503, 2001.	
	C10	HERZ, J. The LDL receptor gene family: (un)expected signal transducers in the brain. <i>Neuron</i> . 29(3): 571-581, 2001.	
	C11	HOTCHKISS, A. et al., The activity of a single chain rt-PA mutant in a primates and rabbits. <i>Thromb. Haemostas</i> 55: 491, 1987.	
	C12	LAPCHAK et al., Metalloproteinase inhibition reduces thromolytic (tissue plasminogen activator)-induced hemorrhage after thromboembolic stroke. <i>Stroke</i> , 31:3034-3040, 2000.	
	C13	JOHANNESSEN, M. et al., Fibrin affinity and clearance of t-PA deletion and substitution analogues. <i>Thromb Haemost.</i> 63(1): 54-59, 1990.	
	C14	LARRUE V, et. al., Hemorrhagic transformation in acute ischemic stroke. Potential contributing factors in the European Cooperative Acute Stroke Study. <i>Stroke</i> 28:957-960, 1999.	
	C15	LO et al., Extracellular proteolysis in brain injury and inflammation: role for plasminogen activators and matrix metalloproteinases. <i>J. Neurosci. Res.</i> 69:1-9, 2002.	
	C16	MARTIN, U. et al., Thromolytic potency of an E. Coli-produced novel variant of rt-PA in dogs. <i>Fibrinolysis</i> 4: 9, 1990.	
	C17	MONTANER et al., Matrix metalloproteinase expression after human cardioembolic stroke: temporal profile and relation to neurological impairment. <i>Stroke</i> 32:1759-1766, 2001.	
	C18	MONTANER, et. al, Matrix metalloproteinase expression is related to hemorrhagic transformation after cardioembolic stroke. <i>Stroke</i> , 32:2762-2767, 2001.	
	C19	MORI T., et al., Downregulation of matrix metalloproteinase-9 and attenuation of edema via inhibition of ERK mitogen activated protein kinase in traumatic brain injury. <i>J. Neurotrauma</i> 19(11):1411-1419, 2002.	
	C20	NINDS rt-PA Stroke Study Group, Tissue plasminogen activator for acute ischemic stroke. The National Institute of Neurological Disorders and Stroke rt-PA Stroke Study Group. <i>New Engl J Med</i> 333:1581-1587, 1995.	
	C21	NINDS rt-PA Stroke Study Group, Intracerebral hemorrhage after intravenous t-PA therapy for ischemic stroke. The NINDS t-PA Stroke Study Group. <i>Stroke</i> 28:2109-2118, 1997.	
	C22	SOBEL, B.E. et al., Augmented and sustained plasma concentrations after intramuscular injections of molecular variants and deglycosylated forms of tissue-type plasminogen activators. <i>Circulation</i> . 81(4): 1362-1373, 1990.	
	C23	SUMII, T., and E.H. Lo, Involvement of matrix metalloproteinase in thrombolysis-associated hemorrhagic transformation after embolic focal ischemia in rats. <i>Stroke</i> 33:831-836, 2002.	
	C24	SUZUKI, S. et al., Intracoronary infusion of E6010 has more potent thromolytic activity than tissue plasminogen activator (t-PA) in dogs: a higher plasma level of E6010 than t-PA causes potent thromolytic activity. <i>J Cardiovasc Pharmacol.</i> 1993 22(6): 834-840, 1993.	
	C25	WANG X, et al., Tissue type plasminogen activator amplifies hemoglobin-induced neurotoxicity in rat neuronal cultures. <i>Neurosci Lett</i> 274:79-82, 1999.	
	C26	WILLNOW, T.E. et al., Lipoprotein receptors: new roles for ancient proteins. <i>Nat Cell Biol.</i> 1(6): E157-E162, 1999.	

	C27	ZHANG et al. Adjuvant treatment with neuroserpin increases the therapeutic window for tissue-type plasminogen activator administration in a rat model of embolic stroke. Circulation 106(6): 740-745, 2002.	

EXAMINER:

DATE CONSIDERED:

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. ___, filed ___, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE – No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR §1.98 and 1287OG163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR §1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR §1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. §120.]